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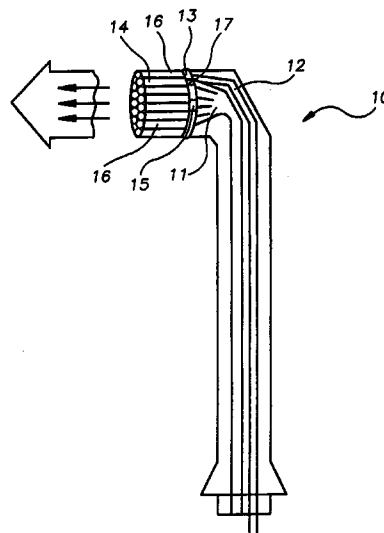
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(54) Dental cleaning treatment laser device

(57) The invention is an oral cleaning device incorporating a low power laser radiation source and means for producing pulsed or continuous wave delivery of low power radiation to teeth, gums and oral tissue. The device is used alone or in conjunction with a liquid jet or jets and/or with photosensitizer dental paste or liquid. The device destroys bacteria and viruses in the mouth and on surrounding tissue. It increases oral blood circulation and enhances the body's immune system response to oral infection. The device may be operated by a trained professional at three different repetition rate frequencies, selected by the operator to treat different dental conditions. The specific photosensitizer liquid or paste which is activated at a certain wavelength is chosen by the operator to treat different dental conditions. The device is also intended for home dental hygiene at low power.

FIG. 1



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EUROPEAN SEARCH REPORT

Application Number
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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
X	EP 0 593 375 A (LASER MEDICAL TECHNOLOGY) 20 April 1994 * column 2, line 52 - line 54 *	1-4,6,7, 12,13	A46B15/00 A61N5/06 A46B11/06 A46B5/00
A	* column 3, line 25 - line 29 * * column 3, line 43 - line 47 * * column 4, line 14 - line 27; figure 1 * ---	9,10	
X	PATENT ABSTRACTS OF JAPAN vol. 014, no. 370 (C-0747), 10 August 1990 & JP 02 136146 A (YOSHIDA DENTAL MFG CO LTD), 24 May 1990, * abstract; figures *	1-3,6,8	
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X	WO 95 10243 A (BIO BRIGHT) 20 April 1995 * abstract; figure 1 *	1,3,6	
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The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 16 May 1997	Examiner SLEIGHTHOLME, G
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- & : member of the same patent family, corresponding document	

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